09480500 SANTA CRUZ RIVER NEAR NOGALES, AZ

LOCATION.--Lat 31°20'40", long 110°51'03", in NW_{1/4} sec. 18, T.24 S., R.15 E. (unsurveyed), Santa Cruz County, Hydrologic Unit 15050301, in Spanish land grant of Maria Santisima del Carmen, on left bank 0.8 mi downstream from international boundary and 5.5 mi east of Nogales.

DRAINAGE AREA.--533 mi², of which 348 mi² is in Mexico.

PERIOD OF RECORD.--Mar. to Nov. 1907 and Apr. 1909 to Dec. 1912 (discharge measurements and fragmentary gage-height record), Jan. 1913 to June 1922 (Oct. 1915 to Sept. 1916 monthly discharge only), May 1930 to Dec. 1933, July 1935 to current year. Water-year estimates for 1913, 1915–16, 1920–22, 1930, 1934–35, published in WSP 1733

REVISED RECORDS.--WSP 959: 1935(M). WSP 1213: 1915-16, 1930-32(M), 1934(M), 1936-37(M). WSP 1283: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 3,702.54 ft above sea level (levels by International Boundary and Water Commission). Prior to June 30, 1922, nonrecording gage or water-stage recorder at various sites 5 to 6 mi downstream at different datums.

REMARKS.—Records fair, except for estimated daily discharges, which are poor. Diversions above station of about 4,300 acre-ft/yr for irrigation of about 2,150 acres in Mexico in 1977. Diversion 19 mi upstream for municipal supply of city of Nogales, Sonora, began in 1949; diversion in 1968 totaled 3,500 acre-ft/yr.

Discharge (ft³/s)

*2,310

Gage height (ft)

*5.33

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 31,000 ft³/s Oct. 9, 1977, gage height, 15.5 ft, from rating curve extended above 1,660 ft³/s on basis of slope-area measurement of peak flow; no flow at times in most years.

Time

1645

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft³/s and (or) maximum (*):

Date

July 24.....

Minimum daily discharge, no flow for many days.													
DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e53	0.20	
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e168	0.20	
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54	0.15	
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39	0.03	
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36	0.01	
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	84	0.00	
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	53	0.00	
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39	8.9	
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.7	26	
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.5	0.53	
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64	0.30	
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	105	e0.15	
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	121	e0.14	
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	53	e0.16	
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.9	0.29	
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.3	0.33	
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	e37	0.33	
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e9.1	0.30	
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e1.5	0.22	
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e1.4	0.23	
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e1.3	0.17	
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98	0.00	e149	0.09	
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	207	34	0.03	
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.7	2.3	0.00	
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.87	0.00	
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.00	
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	
29	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.17	0.00	
30	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.17	0.00	
31	0.00		0.00	0.00		0.00		0.00		e124	0.19		
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98	348.70	1122.17	38.92	
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	11.2	36.2	1.30	
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98	207	168	26	
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.9	692	2230	77	
CFSM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.07	0.00	
IN.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.08	0.00	
STATIST	rics of M	ONTHLY MEA	N DATA FO	OR WATER Y	EARS 1914	l - 2005,	BY WATER Y	ZEAR (WY)					
MEAN	26.1 904	9.97 164	32.5 542	38.6 492	31.4 370	22.7 318	7.65 58.1	1.74 16.8	1.26 24.4	38.1 254	81.9 745	24.4 158	
MAX		2001							1984				
(WY)	1978		1979	1979	1985	1983	1992	1983		1950	1955	1983	
MIN (WY)	0.00 1914	0.00 1919	0.00 1919	0.00 1974	0.00 1974	0.00 1914	0.00 1914	0.00 1914	0.00 1914	0.00 1918	0.15 1991	0.00 1918	
arnara Di		T.00	F0D (_	OD 0005 113					0005	
SUMMAR	Y STATIST	105	FOR 2	2004 CALEN	DAR 1EAR	r	OR 2005 WAT	IER YEAR		WAIER IE	ARS 1914	- 2005	
ANNUAL TOTAL			140.99			1510.77							
ANNUAL MEAN			0.39				4.14			25.			
	r annual i									123	42	1979	
LOWEST ANNUAL MEAN										0.	42	2004	
	HIGHEST DAILY MEAN				Jul 16		207	Jul 24 Oct 1		13200	OGL		
LOWEST DAILY MEAN					Jan 1						00 Oct		
ANNUAL SEVEN-DAY MINIMUM					Jan 1			Oct 1			00 Oct	1 1913	
ANNUAL RUNOFF (AC-FT)				280			3000			18660			
ANNUAL RUNOFF (CFSM)				0.001			0.008			0.048			
ANNUAL RUNOFF (INCHES)				0.01			0.11			0.66			
	10 PERCENT EXCEEDS 50 PERCENT EXCEEDS			0.00			0.31			40			
				0.00			0.00			2.			
90 PERC	CENT EXCE	೬೮ಽ	0.00				0.00			0.	UU		